



PATENT APPLICATION
Docket No.: 301505.2003-001

UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:

Kun Chen, Lev T. Perelman, Qingguo Zhang, Ramachandra R. Dasari
and Michael S. Feld

Application No.: 09/848,767 Filed Date: May 4, 2001

Confirmation No. 6656 Group: 2882 Examiner: Not assigned

For: Optical Computed Tomography in a Turbid Media

CERTIFICATE OF MAILING	
I Hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.	
on <u>October 9, 2003</u>	<u>Sharon R. Lloyd</u>
Date	Signature
<u>Sharon R. Lloyd</u>	
Typed or printed name of person signing certificate	

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

This Information Disclosure Statement is submitted:

☐ under 37 CFR 1.129(a), or
(First/Second submission after Final Rejection)

☒ under 37 CFR 1.97(b), or
(Within any one of the following time periods: three months of filing national application (other than a CPA) or date of entry of the national stage in an international application; or before the mailing date of a first office action on the merits in a non-provisional application, including a CPA, or a Request for Continued Examination).

☐ under 37 CFR 1.97(c) together with either:

☐ a Statement under 37 CFR 1.97(e), as checked below, or

☐ a \$180.00 fee under 37 CFR 1.17(p), or

(More than 3 months after receipt of the International Search Report, but before final action or notice of allowance, whichever occurs first)

☐ under 37 CFR 1.97(d) together with:

☐ a Statement under 37 CFR 1.97(e), as checked below, and

☐ a \$180.00 fee under 37 CFR 1.17(p), or

(Filed after final action or notice of allowance, whichever occurs first, but on or before payment of the issue fee)

☐ under 37 CFR 1.97(i):

Applicant requests that the IDS and cited reference(s) be placed in the application filewrapper.

(Filed after payment of issue fee)

RECEIVED

OCT 22 2003

TECHNOLOGY CENTER R3700

2882
3737
#11 IDS
11/26/03

Statement Under 37 CFR 1.97(e)

- ☐ Each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or
- ☐ No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Statement Under 37 CFR 1.704(d) (Patent Term Adjustment)

Applies to original applications (other than design) filed on or after May 29, 2000

- ☐ Each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.

Enclosed herewith is form PTO-1449:

- ☒ Copies of the cited references are enclosed.
- ☐ In accordance with 37 C.F.R. § 1.98 (d), copies of cited references (*list reference not enclosed*) are not enclosed as these references were entered in earlier application, U.S. Application No. [], to which the present application claims priority under 35 U.S.C. 120. The earlier application contains copies of the cited references.
- ☐ If copies of references [*list references not enclosed*] would benefit the Examiner of this case, the Examiner is invited to call the undersigned attorney and copies will be forwarded immediately.
- ☒ Some listed references were cited in the enclosed International Search Report in a counterpart foreign application.

Concise Explanation Requirement (non-English references):

- ☐ The "concise explanation" requirement (non-English references) for reference(s) [] under 37 CFR 1.98(a)(3) is satisfied by:
- ☐ the explanation provided on the attached sheet.
 - ☐ the explanation provided in the Specification.
 - ☐ submission of the enclosed International Search Report.
 - ☐ the enclosed English language abstract.

☐ Applicant requests that the following pending applications be considered:

Examiner's
Initials

____ U.S. Patent Application No. [], Publication No. [], Publication Date [],
by [inventor(s)], filed [], Docket No.: []

____ U.S. Patent Application No. [], Publication No. [], Publication Date [],
by [inventor(s)], filed [], Docket No.: []

____ U.S. Patent Application No. [], Publication No. [], Publication Date [],
by [inventor(s)], filed [], Docket No.: []

Examiner

Date

☐ A copy of each above-cited application, including the current claims, is enclosed.

☐ A copy of each above-cited application, including the current claims, is enclosed, except those entered in prior application, U.S. Application No. [], to which priority under 35 U.S.C. 120 is claimed.

The Examiner is requested to return a copy of the above list of pending applications indicating which references were considered with the next office communication.

It is requested that the information disclosed herein be made of record in this application.

Method of payment:

☐ A check for the fee noted above is enclosed, or the fee has been included in the check with the accompanying Reply. A copy of this Statement is enclosed.

☐ Please charge Deposit Account No. 50-1935 in the amount of \$[]. A copy of this Statement is enclosed.

☒ Please charge any deficiency in fees and credit any overpayment to Deposit Account No. 50-1935.

Respectfully submitted,

BOWDITCH & DEWEY, LLP

By Monica Grewal

Monica Grewal

Date: October 9, 2003

Registration No. 40,056

Direct tel.: (508) 416-2474

Telephone: (508) 879-5700

Facsimile: (508) 872-1492

Bowditch & Dewey, LLP

161 Worcester Road

P.O. Box 9320

Framingham, Massachusetts 01701-9320

PTO-1449 REPRODUCED		ATTORNEY DOCKET NO. 301505.2003-000		APPLICATION NO. 09/848,767	
INFORMATION DISCLOSURE CITATION IN AN APPLICATION October 9, 2003 (Use several sheets if necessary)		APPLICANT Kun Chen et al.			
		FILING DATE May 4, 2001		GROUP ART UNIT 2882	

U.S. PATENT DOCUMENTS							
EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
	AA	5,303,026	12 Apr 1994	Strobl et al	356	318	
	AB	5,919,140	6 Jul 1999	Perelman et al	600	476	
	AC	5,931,789	3 Aug 1999	Alfano et al	600	473	

FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO


OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
AR	Barbour, R.L., et al, "Imaging of Subsurface Regions of Random Media by Remote Sensing," SPIE Vol. 1431, pp 192-203 (1991)
AS	Barbour, R.L, et al, "Imaging of Diffusing Media by a Progressive Iterative Backprojection Method Using Time-Domain Data," SPIE Vol 1641, pp 21-34 (1992)
AT	Chen, K et al, "Optical computed tomography in a turbid medium using early arriving photons," Journal of Biomedical Optics, SPIE Vol 5, No 2, pp 144-154 (Apr 2000)
AU	Chernomordik, V, et al, "Point spread functions of photons in time-resolved transillumination experiments using simple scaling arguments," Med. Phys 23 (11), pp 1857-1861 (Nov. 1996)
AV	Colak, S.B., et al, "Tomographic image reconstruction from optical projections in light-diffusing media," Applied Optics Vol 36, No 1, pp 180-213 (Jan 1997)
AW	Eda, H., et al, "Multichannel time-resolved optical tomographic imaging system," American Institute of Physics, Review of Scientific Instruments, Vol 70, No. 9, pp 3595-3602, (Sep 1999)
AX	Hebden, J. C, et al, "Simultaneous reconstruction of absorption and scattering images by multichannel measurement of purely temporal data," Optical Letters Optical Society of America, Vol. 24, No. 8, pp 534-536, (Apr 15 1999)
AY	Hopf, F.A., et al, "Second-harmonic interferometers," Optical Society of America, Optics Letters, Vol 5, No. 9, pp 386-388, (Sep 1980)
AZ	Irby, J., et al, "A two-color interferometer using a frequency doubled diode pumped laser for electron density measurements," American Institute of Physics, Review of Scientific Instruments, Vol 70, No. 1, pp 699-702, (Jan 1999)

EXAMINER	DATE CONSIDERED
----------	-----------------

RECEIVED

OCT 24 2003

TECHNOLOGY CENTER R3700

PTO-1449 REPRODUCED INFORMATION DISCLOSURE CITATION IN AN APPLICATION October 9, 2003 (Use several sheets if necessary)			ATTORNEY DOCKET NO. 301505.2003-000		APPLICATION NO. 09/848,767		
			APPLICANT Kun Chen et al.				
			FILING DATE May 4, 2001		GROUP ART UNIT 2882		
U.S. PATENT DOCUMENTS							
EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AR2	Ueda, Y, et al, "Average Value Methods: A New Approach to Practical Optical Computer Tomography for a Turbid Medium Such as Human Tissue," Journal of Appl. Phys., Vol 37 pp 2717-2723, (1998)					
	AS2	Winn, J. N, et al, "Distribution of the paths of early-arriving photons traversing a turbid medium," Applied Optics, Vol 37, No 34, pp 8085-8091 (Dec 1998)					
	AT2	Zonios, G., et al, "Diffuse Reflectance Spectroscopy of Human Adenomatous Colon Polyps In Vivo," Applied Optics, (1999)					
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> RECEIVED OCT 24 2003 TECHNOLOGY CENTER R3700 </div> <div style="text-align: center;"> RECEIVED OCT 22 2003 TECHNOLOGY CENTER R3700 </div> </div>							
EXAMINER				DATE CONSIDERED			